BRAIN INJURY

Official Research Journal of the International Brain Injury Association

Volume 15 2001

TAYLOR & FRANCIS
Founded 1798

BRAIN INJURY

Editors-in-Chief

Jeffrey S. Kreutzer, *Department of Physical Medicine and Rehabilitation, Virginia Commonwealth University, Medical College of Virginia Campus, Box 980542, Richmond, VA 23298-0542, USA.*
e-mail: jskreutz@hsc.vcu.edu

Nathan D. Zasler, *Concussion Care Centre and Tree of Life, 10120 West Broad Street, Suite G, Glen Allen, VA 23060, USA.*
e-mail: nzasler@cccv-ltd.com

Associate Editors

Nathan Cope, *Paradigm Health Corporation, 1001 Galaxy Way, Suite 400, Concord, California 94520, USA. Tel.: +1 510 686 5500; Fax: +1 510 680 4469.*

William McKinlay, *'Ahead' (Community Supported Living), Case Management Services Ltd, 17a Main Street, Balerno, Edinburgh EH14 7EQ, Scotland, UK. Tel.: +44 131 451 5265; Fax.: +44 131 449 5158; e-mail: bill.mckinlay@caseman.co.uk*

Editor: Japan

Takashi Tsubokawa, *Department of Neurological Surgery, Nihon University School of Medicine, 30–11 Oyaguchi-kamimachi, Itabashi-ku, Tokyo 173, Japan.*
Tel.: +81 33 972 8111; Fax: +81 33 554 0425.

Editor: Australasia/Pacific Rim

Jennie Ponsford, *Psychology Department, Epworth Hospital, Bethesda Rehabilitation, 29 Erin Street, Richmond 3121, Australia.*
Tel.: +61 3 420 5239; Fax: +61 3 427 9856; e-mail: mossgiel@c031.aone.net.au

Book Reviews Editor

Brick Johnstone, *Department of Physical Medicine and Rehabilitation, University of Missouri-Columbia Medical School, Rusk Rehabilitation Center DC 046, 1 Hospital Drive, Columbia, Missouri 65212, USA. Tel.: +1 314 882 3101; Fax: +1 314 884 4540; e-mail: brick_johnstone@pmr.missouri.edu*

Founding Editor: Henry Stonnington

Editorial Advisory Board

Becky Mahler Adams, *Healthsouth Rehabilitation Hospital, VA, USA*
Donald Becker, *UCLA, CA, USA*
Sir Michael Bond, *University of Glasgow, UK*
Neil Brooks, *Brain Injury Services, Essex, UK*
David Burke, *Royal Talbot Hospital, Australia*
Alexandre Castro-Caldas, *Hospital Santa Maria, Lisbon, Portugal*
John Corrigan, *Ohio State University, OH, USA*
Zeev Groswasser, *Lowenstein Hospital Rehabilitation Center, Israel*
Kenneth Jaffe, *University of Washington, WA, USA*
John Jane, *University of Virginia, VA, USA*
Bryan Jennett, *University of Glasgow, UK*
Robert Knights, *Psychologist, Ontario, Canada*
Dennis Matthews, *Children's Hospital, Denver, CO, USA*
Anna Mazzucchi, *University of Parma, Italy*
Walter Oder, *Allgemeine Unfallversicherungsanstalt, Wien, Austria*
Harvey Shapiro, *UC San Diego, CA, USA*
Glenn Seliger, *Helen Hayes Hospital, NY, USA*
Donald Stein, *Emory University, Atlanta, Georgia, USA*
Jean-Luc Truelle, *CMC Foch, Suresnes, France*
Klaus Wiedmann, *Helene-Maier-Stiftung, Landgut Theisewitz, Brösgener Str. 2, D-01731 Kreischa, Germany*
George Zitnay, *The Virginia Neurological Institute, VA, USA*
Ed Van Zomeren, *Rijksuniversiteit Groningen, The Netherlands*

Brain Injury

Contents of Volume 15 2001

Volume 15, Number 1, January 2001

Original papers:

Course of neuropsychological recovery from moderate-to-severe head injury: a 2-year follow-up
E. Lannoo, F. Colardyn, C. Jannes and G. de Soete 1

Stability of employment after brain injury: a 7-year follow-up study
J. Pössl, S. Jürgensmeyer, F. Karlbauer, C. Wenz and G. Goldenberg 15

Neuropsychological rehabilitation for traumatic brain injury: do carers benefit?
A. Bowen, A. Tennant, V. Neumann and M. A. Chamberlain 29

Errors in diagnosing post-traumatic stress disorder after traumatic brain injury
T. M. McMillan 39

Location of the chronic subdural haematoma: role of the gravity and cranial morphology
K. S. Lee, W. K. Bae, S. M. Yoon, J. W. Doh, H. G. Bae and I. G. Yun 47

Pre-injury crime, substance abuse, and neurobehavioural functioning after traumatic brain injury
S. A. Kolakowsky-Hayner and J. S. Kreutzer 53

Are neuropsychiatric symptoms associated with evidence of right brain injury in referrals to a neuropsychiatric brain injury unit?
L. L. Borek, R. Butler and S. Fleminger 65

Review of subject:

Attentional deficits in patients with post-concussion symptoms: a componential perspective
R. C. K. Chan 71

Volume 15, Number 2, February 2001

Editorial:

Mild traumatic brain injury
F. Gerstenbrand and Ch. A. Stepan 95

A European symposium on mild traumatic brain injury:
Diagnostic criteria and differential diagnosis of mild traumatic brain injury
J. R. De Kruijk, A. Twijnstra and P. Leffers 99

To do or not to do? Magnetic resonance imaging in mild traumatic brain injury
B. Voller, E. Auff, P. Schnider and F. Aichner 107

Management of mild traumatic brain injury: lack of consensus in Europe
J. R. De Kruijk, A. Twijnstra, S. Meerhoff and P. Leffers 117

Original articles:
Factor analysis of the components of 12 standard test batteries, for unilateral spatial neglect, reveals that they contain a number of discrete and important clinical variables
S. Maeshima, G. Truman, D. S. Smith, N. Dohi, K. Shigeno, T. Itakura and N. Komai 125

Mood and behavioural disorders following traumatic brain injury: clinical evaluation and pharmacological management
C. Perino, R. Rago, A. Cicolin, R. Torta and F. Monaco 139

Misconceptions about brain injury among the general public and non-expert health professionals: an exploratory study
T. L. Swift and S. L. Wilson 149

Methotrimeprazine in the treatment of agitation in acquired brain injury patients
O. Maryniak, R. Manchanda and A. Vclani 167

Neurobehavioural and cognitive profile of traumatic brain injury patients at risk for depression and suicide
J. León-Carrión, M[a] L. De Serdio-Arias, F. M. Cabezas, J. M. D. Roldán, R. Domínguez-Morales, J. M. B. Y. Martín and M[a] A. M. Sanchez 175

Book reviews 183

Letter to the editor 187

Volume 15, Number 3, March 2001

Original papers:
Traumatic brain injury (TBI) 10–20 years later: a comprehensive outcome study of psychiatric symptomatology, cognitive abilities and psychosocial functioning
D. Hoofien, A. Gilboa, E. Vakil and P. J. Donovick 189

Correlation of atrophy measures on MRI with neuropsychological sequelae in children and adolescents with traumatic brain injury
K. Verger, C. Junqué, H. S. Levin, M. A. Jurado, M. Pérez-Gómez, D. Bartrés-Faz, M. Barrios, A. Álvarez, F. Bartumeus and J. M. Mercader 211

Caregiver depression following traumatic brain injury (TBI): a consequence of adverse effects on family members?
J. K. J. Harris, H. P. D. Godfrey, F. M. Partridge and R. G. Knight 223

Psychological distress in carers of head injured individuals: the provision of written information
K. C. Morris 239

Personality and neurocognitive correlates of impulsive aggression in long-term survivors of severe traumatic brain injury
K. W. Greve, E. Sherwin, M. S. Stanford, C. Mathias, J. Love and P. Ramzinski 255

A psychological assessment of adolescent and young adult inpatients after traumatic brain injury
D. Viguier, G. Dellatolas, I. Gasquet, C. Martin and M. Choquet 263

Diagnostic confusion in mild traumatic brain injury (MTBI). Lessons from clinical practice and EFNS—Inquiry
K. von Wild and S. Terwey 273

Book reviews 279

Volume 15, Number 4, April 2001

Original papers:
Neuropsychological functioning during the year following severe traumatic brain injury
D. A. Kersel, N. V. Marsh, J. H. Havill and J. W Sleigh 283

Subjective symptomatology after traumatic head injury
L. J. Miller and J. Donders 297

Mobile phones as a new memory aid: a preliminary investigation using case studies
T. K. Wade and J. C. Troy 305

Setraline to improve arousal and alertness in severe traumatic brain injury secondary to motor vehicle crashes
J. M. Meythaler, L. Depalma, M. J. Devivo, S. Guin-Renfroe and T. A. Novack 321

Training brain injury rehabilitation therapists to use generalized teaching and interaction skills
J. M. Ducharme and T. F. Spencer 333

Head injury and alexithymia: implications for family practice care
K. R. Williams, J. Galas, D. Light, C. Pepper, C. Ryan, A. E. Kleinmann, R. Burright and P. Donovick 349

Establishing minimum recommended standards for post-acute brain injury rehabilitation
K. Malia and S. Duckett 357

Case studies:
Altitudinal neglect in a patient with occipital infarction
A. Ergun-Marterer, E. Ergun, M. Mentes and W. Oder 363

Unilateral spatial neglect associated with chronic subdural haematoma: a case report
S. Maeshima, T. Matsumoto, A. Ueyoshi, M. Kitayama, N. Nakao, K. Nakai and T. Itakura 371

Volume 15, Number 5, May 2001

Subject review:
Evaluation of legal competency in patients with frontal lobe injury
G. M. Reid-Proctor, K. Galin and M. A. Cummings 377

Original articles:
Psychological consequences of vertigo and the effectiveness of vestibular rehabilitation for brain injury patients
B. Gurr and N. Moffat 387

Outcome after mild-to-moderate blunt head injury: effects of focal lesions and diffuse axonal injury
C.-W. Wallesch, N. Curio, S. Kutz, S. Jost, C. Bartels and H. Synowitz 401

Outcomes from milieu-based neurorehabilitation at up to 11 years post-discharge
P. S. Klonoff, D. G. Lamb and S. W. Henderson 413

Head injuries in skiers: an analysis of injury severity and outcome
P. T. Diamond, S. D. Gale and H. K. Denkhaus 429

Validation of an independent living scale for post-acute rehabilitation applications
M. J. Ashley, C. S. Persel and M. C. Clark 435

Relationship of motor and cognitive abilities to functional performance in stroke rehabilitation
K. N. K. Fong, C. C. H. Chan and D. K. S. Au 443

Case studies:
Cognitive deficits due to asymmetrical bilateral thalamic lesions
J. M. Leathem and G. T. Martin 455

The use of bupropion in the treatment of restlessness after a traumatic brain injury
C. J. Teng, S. Bhalerao, Z. Lee, J. Farber, H. Morris, T. Foran and W. Tucker 463

Volume 15, Number 6, June 2001

Original papers:
Retrospective confidence judgements made by adults with traumatic brain injury: relative and absolute accuracy
M. R. T. Kennedy 469

Prediction of neuropsychiatric outcome following mild trauma brain injury: an examination of the Glasgow Coma Scale
S. McCullagh, D. Ouchterlony, A. Protzner, N. Blair and A. Feinstein 489

The utility of the Substance Abuse Subtle Screening Inventory-3 for use with individuals with brain injury
P. M. Arenth, J. A. Bogner, J. D. Corrigan and L. Schmidt 499

Circadian rhythm of temperature in head injury
I. Kropyvnytskyy, F. Saunders, M. Pols and C. Zarowski 511

Mathematical models of cognitive recovery
P. P. Wong, G. Monette and N. I. Weiner 519

Tracheotomy in severe TBI patients: sequelae and relation to vocational outcome
O. Keren, M. Cohen, I. Lazar-Zweker and Z. Groswasser 531

Head injuries in men's and women's lacrosse: a 10 year analysis of the NEISS database
P. T. Diamond and S. D. Gale 537

Case study:
Effects of TENS and methylphenidate in tuberculous meningo-encephalitis
E. J. A. Scherder, S. Van Deursen, S. R. Van Manen, K. Ferenschild, R. Simis and P. J. Vuyk 545

Book review 559

Volume 15, Number 7, July 2001

Editorial:
Depression and traumatic brain injury
C. M. Stonnington 561

Original papers:
The prevalence and symptom rates of depression after traumatic brain injury: a comprehensive examination
J. S. Kreutzer, R. T. Seel and E. Gourley 563

A computer system for continuous long-term recording, processing, and analysis of physiological data of brain injured patients in ICU settings
I. Kropyvnytskyy, F. Saunders, P. Schierek and M. Pols 577

Unilateral visual neglect in right-hemisphere stroke: a longitudinal study
L. R. Cherney and A. S. Halper 585

Cognitive deficits following blast injury-induced neurotrauma: possible involvement of nitric oxide
I. Cernak, Z. Wang, J. Jiang, X. Bian and J. Savic 593

Rehabilitation outcomes for brain injured patients in Australia: functional status, length of stay and discharge destination
L. Tooth, K. McKenna, J. Strong, K. Ottenbacher, J. Connell and M. Cleary 613

Case studies:
Combined motor disturbances following severe traumatic brain injury: an integrative long-term treatment approach
O. Keren, J. Reznik and Z. Groswasser 633

Conceptual dilemmas in evaluating individuals with severely impaired consciousness
W. K. Ng, R. N. Thompson, S. A Yablon and M. Sherer 639

Subject review:
Sports-related brain injury research: methodological difficulties associated with ambiguous terminology
S. M. Wills and J. M. Leathem 645

Letter to the editor 649

Volume 15, Number 8, August 2001

Subject review:
Family carers and the adult head-injured: a critical review of carers' needs
I. Sinnakaruppan and D. M. Williams 653

Original papers:
Neuropsychological assessment difficulties associated with 'hard-to-assess' individuals: a retrospective review
D. R. Babbage and J. M. Leathem 673

Psychosocial functioning during the year following severe traumatic brain injury
D. A. Kersel, N. V. Marsh, J. H. Havill and J. W. Sleigh 683

Biased responding: a case series demonstrating a relationship between somatic symptoms and impaired recognition memory performance for traumatic brain injured individuals
R. A. Bierley, A. I. Drake, S. Ahmed, E. S. Date, M. Rosner, D. Warden, A. M. Salazar and The Defense and Veterans Head Injury Program (DVHIP) Study Group 697

The reliability and validity of the SF-36 health survey questionnaire for use with individuals with traumatic brain injury
M. Findler, J. Cantor, L. Haddad, W. Gordon and T. Ashman 715

The community integration questionnaire with new scoring guidelines: concurrent validity and need for appropriate norms
C. P. Kaplan 725

Clinical and functional outcome after alcohol neurolysis of the tibial nerve for ankle–foot spasticity
K. S. G. Chua and K.-H. Kong 733

Vital capacity following traumatic brain injury
M. A. McHenry 741

Volume 15, Number 9, September 2001

Original papers:

Patterns of community integration 2–5 years post-discharge from brain injury rehabilitation
E. Doig, J. Fleming and L. Tooth 747

Charges and lengths of stay for acute and inpatient rehabilitation treatment of traumatic brain injury 1990–1996
J. S. Kreutzer, S. A. Kolakowsky-Hayner, D. Ripley, D. X. Cifu, M. Rosenthal, T. Bushnik, R. Zafonte, J. Englander and W. High 763

Post-traumatic stress disorder symptoms following a head injury: does amnesia for the event influence the development of symptoms?
S. J. Turnbull, E. A. Campbell and I. J. Swann 775

Comparison of pocket-computer memory aids for people with brain injury
P. Wright, N. Rogers, C. Hall, B. Wilson, J. Evans, H. Emslie and C. Bartram 787

Early predictors of mortality in penetrating compared with closed brain injury
C. Peek-Asa, D. McArthur, D. Hovda and J. Kraus 801

Depression amongst outpatients with traumatic brain injury
M. B. Glenn, T. O'Neil-Pirozzi, R. Goldstein, D. Burke and L. Jacob 811

A further study on the sustained attention response to task (SART): the effect of age, gender and education
R. C. K. Chan 819

Validity of motor tasks for predicting running ability in acquired brain injury
G. Williams and P. Goldie 831

Volume 15, Number 10, October 2001

Review of subject:

Functional outcomes and quality of life in patients with brain tumours: a review of the literature
M. E. Huang, J. Wartella, J. Kreutzer, W. Broaddus and L. Lyckholm 843

Original papers:

Age and functioning after mild traumatic brain injury: the acute picture
M. J. Rapoport and A. Feinstein 857

The association between mild traumatic brain injury and psychiatric conditions
G. Mooney and J. Speed 865

Amnesia, neuroendocrine levels and PTSD in motor vehicle accident victims
M. R. Flesher, D. L. Delahanty, A. J. Raimonde and E. Spoonster 879

Short-term durability and improvement of function in traumatic brain injury: a pilot study using the Paediatric Evaluation of Disability Inventory (PEDI) classification levels
H. M. Dumas, S. M. Haley and J. P. Rabin 891

Pilot study of electrical stimulation on median nerve in comatose severe brain injured patients: 3-month outcome
C. V. Peri, M. E. Shaffrey, E. Farace, E. Cooper, W. M. Alvess, J. B. Cooper, J. S. Young and J. A. Jane 903

Case Study:
Post-stroke violent adventitial movement responsive to levo-dopa/carbi-dopa therapy
E. P. Frates, D. T. Burke, H. Chae and B. Ahangar 911

Dysautonomia syndrome in the acute recovery phase after traumatic brain injury: relief with intrachecal Baclofen therapy
E. Cuny, E. Richer and J. P. Castel 917

Transient crossed aphasia and persistent amnesia after right thalamic haemorrhage
S. Maeshima, F. Ozaki, R. Okita, H. Yamaga, H. Okada, K. Kakishita, H. Moriwaki and P. Roger 927

Volume 15, Number 11, November 2001

Original papers:
The association between head injuries and psychiatric disorders: findings from the New Haven NIMH Epidemiologic Catchment Area Study
J. M. Silver, R. Kramer, S. Greenwald and M. Weissman 935

Subjective experience after traumatic brain injury
C. Martin, D. Viguier, G. Deloche and G. Dellatolas 947

A preliminary study to investigate the empowerment factors of survivors who have experienced brain damage in rehabilitation
D. W. K. Man 961

Case studies:
Hypodipsic hypernatremia and diabetes insipidus following anterior communicating artery aneurysm clipping: diagnostic and therapeutic challenges in the amnestic rehabilitation patient
B. N. Nguyen, S. A. Yablon and C. Y. Chen 975

Neuropsychological aspects of driving characteristics
A. Lundqvist 981

Use of antecedent control to improve the outcome of rehabilitation for a client with frontal lobe injury and intolerance for auditory and tactile stimuli
G. Fluharty and N. Glassman 995

Reduction of chronic aggressive behaviour 10 years after brain injury
C. Watson, N. A. Rutterford, D. Shortland, N. Williamson and N. Alderman 1003

Book reviews 1017

Volume 15, Number 12, December 2001

Original papers:
The clinical utility of the Beck Depression Inventory after traumatic brain injury
A. Green, K. Felmingham, I. J. Baguley, S. Slewa-Younan and S. Simpson 1021

Neuropsychological long-term sequelae of perinatal asphyxia
C. Mañeru, C. Junqué, F. Botet, M. Tallada and J. Guardia 1029

Risk factors for deep venous thrombosis in tetraparesic mentally retarded patients
M. C. Rousseau and B. Guillotel 1041

Effort has a greater effect on test scores than severe brain injury in compensation claimants
P. Green, M. L. Rohling, P. R. Lees-Haley and L. M. Allen III 1045

Relations between decision-making deficits and discriminating contingencies following brain injury
M. W. Schlund, G. M. Pace and J. McGready 1061

Case studies:
Increasing functional communication through relaxation training and neuromuscular feedback
J. M. Guercio, K. E. Ferguson and M. J. McMorrow 1073

Cognitive recovery from 'persistent vegetative state': psychological and personal perspectives
B. A. Wilson, F. Gracey and K. Bainbridge 1083